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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. MP0390.I

First Inventor Ho, Son et al.

Title LINE CACHE CONTROLLER WITH LOOKAHEAD

Express Mail Label No. EL 741 091 036 US

08913 U S P T O  
10/6/2003  
08/21/03

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 40]  
*(preferred arrangement set forth below)*
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets 23]
- Oath or Declaration [Total Pages 3]
- Newly executed (original or copy)
- Copy from a prior application (37 CFR 1.63 (d))  
*(for a continuation/divisional with Box 18 completed)*
- DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

- CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - CD-ROM or CD-R (2 copies); or
    - paper
  - Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

- Assignment Papers (cover sheet & document(s))
- 37 C.F.R. §3.73(b) Statement  Power of Attorney  
*(when there is an assignee)*
- English Translation Document (*if applicable*)
- Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
- Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
- Request and Non Publication under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No: 10 / 626,507

Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label 23624 or  Correspondence address below  
*(Insert Customer No. or Attach bar code label here)*

|         |                                   |           |              |          |                  |
|---------|-----------------------------------|-----------|--------------|----------|------------------|
| Name    | Marvell Semiconductor, Inc.       |           |              |          |                  |
| Address | 700 First Avenue<br>Mail Stop 509 |           |              |          |                  |
| City    | Sunnyvale                         | State     | CA           | Zip Code | 94089            |
| Country | United States                     | Telephone | 408-222-2500 |          | Fax 408-752-9034 |

|                   |   |  |                                   |                 |
|-------------------|---|--|-----------------------------------|-----------------|
| Name (Print/Type) | Joseph M. Lafata  |  | Registration No. (Attorney/Agent) | 37,166          |
| Signature         |  |  | Date                              | August 21, 2003 |

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# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ 834)**Complete if Known**

|                      |                |
|----------------------|----------------|
| Application Number   | To Be Assigned |
| Filing Date          | Herewith       |
| First Named Inventor | Ho, Son et al. |
| Examiner Name        | To Be Assigned |
| Group / Art Unit     | T oBe Assigned |
| Attorney Docket No.  | MP0390.I       |

**METHOD OF PAYMENT (check all that apply)**
 Check  Credit card  Money  Other  None Order
 Deposit Account:Deposit Account Number Deposit Account Name 

## The Commissioner is authorized to: (check all that apply)

- 
- Charge fee(s) indicated below
- 
- Credit any overpayments
- 
- 
- Charge any additional fee(s) during the pendency of this application
- 
- 
- Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity        | Small Entity | Fee Description | Fee Paid |
|---------------------|--------------|-----------------|----------|
| Fee Code            | Fee (\$)     | Fee Code (\$)   |          |
| 1001                | 750          | 2001            | 375      |
| 1002                | 330          | 2002            | 165      |
| 1003                | 520          | 2003            | 260      |
| 1004                | 750          | 2004            | 375      |
| 1005                | 160          | 2005            | 80       |
| <b>SUBTOTAL (1)</b> |              |                 | (\$ 750) |

**2. EXTRA CLAIM FEES**

| Total Claims       | -20 ** | =     | 0 | X | 18 | =  | 0 | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------|-------|---|---|----|----|---|--------------|----------------|----------|
| Independent Claims | 4      | -3 ** | = | 1 | X  | 84 | = | 84           |                |          |
| Multiple Dependent |        |       |   |   | X  |    | = | 0            |                |          |

**Large Entity**

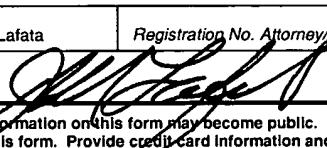
| Large Entity        | Small Entity | Fee Description   |
|---------------------|--------------|---|
| Fee Code            | Fee (\$)     | Fee Description   |
| 1202                | 18           | 2202 9 Claims in excess of 20                                     |
| 1201                | 84           | 2201 42 Independent claims in excess of 3                         |
| 1203                | 280          | 2203 140 Multiple dependent claim, if not paid                    |
| 1204                | 84           | 2204 42 ** Reissue independent claims over original patent        |
| 1205                | 18           | 2205 9 ** Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2)</b> |              | (\$ 84)   |

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity                      | Small Entity | Fee Code | Fee (\$) | Fee Description  | Fee Paid |
|-----------------------------------|--------------|----------|----------|--|----------|
| 1051                              | 130          | 2051     | 65       | Surcharge - late filing fee or oath  |          |
| 1052                              | 50           | 2052     | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053                              | 130          | 1053     | 130      | Non-English specification  |          |
| 1812                              | 2,520        | 1812     | 2,520    | For filing a request for reexamination                                     |          |
| 1804                              | 920*         | 1804     | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805                              | 1,840*       | 1805     | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251                              | 110          | 2251     | 55       | Extension for reply within first month                                     |          |
| 1252                              | 410          | 2252     | 205      | Extension for reply within second month                                    |          |
| 1253                              | 930          | 2253     | 465      | Extension for reply within third month                                     |          |
| 1254                              | 1,450        | 2254     | 725      | Extension for reply within fourth month                                    |          |
| 1255                              | 1,970        | 2255     | 985      | Extension for reply within fifth month                                     |          |
| 1401                              | 320          | 2401     | 160      | Notice of Appeal   |          |
| 1402                              | 320          | 2402     | 160      | Filing a brief in support of an appeal                                     |          |
| 1403                              | 280          | 2403     | 140      | Request for oral hearing   |          |
| 1451                              | 1,510        | 1451     | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452                              | 110          | 2452     | 55       | Petition to revive – unavoidable   |          |
| 1453                              | 1,300        | 2453     | 650      | Petition to revive – unintentional   |          |
| 1501                              | 1,300        | 2501     | 650      | Utility issue fee (or reissue)   |          |
| 1502                              | 470          | 2502     | 235      | Design issue fee   |          |
| 1503                              | 630          | 2503     | 315      | Plant issue fee  |          |
| 1460                              | 130          | 1460     | 130      | Petitions to the Commissioner  |          |
| 1807                              | 50           | 1807     | 50       | Processing fee under 37 CFR 1.17 (q)                                       |          |
| 1806                              | 180          | 1806     | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021                              | 40           | 8021     | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809                              | 750          | 2809     | 375      | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 1810                              | 750          | 2810     | 375      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801                              | 750          | 2801     | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802                              | 900          | 1802     | 900      | Request for expedited examination of a design application                  |          |
| Other fee (specify) _____         |              |          |          |  |          |
| *Reduced by Basic Filing Fee Paid |              |          |          | <b>SUBTOTAL (3)</b>  | (\$ 0)   |

**SUBMITTED BY****Complete (if applicable)**

|                   |   |                                 |        |                 |              |
|-------------------|---|---------------------------------|--------|-----------------|--------------|
| Name (Print/Type) | Joseph M. Lafata  | Registration No. Attorney/Agent | 37,166 | Telephone       | 248-641-1600 |
| Signature         |  |                                 | Date   | August 21, 2003 |              |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

|                      |                                      |
|----------------------|--------------------------------------|
| First Named Inventor | Ho, Son et al.                       |
| Title                | Line Cache Controller With Lookahead |
| Atty Docket Number   | MP0390.I                             |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

August 21, 2003

Date



Signature

Joseph M. Lafata

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.